```
=> d his 1

     (FILE 'HCAPLUS' ENTERED AT 11:58:49 ON 26 MAY 2004)
L2             1 S L1 AND RIBOZYME#

=> fil reg
FILE 'REGISTRY' ENTERED AT 12:00:50 ON 26 MAY 2004
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   25 MAY 2004  HIGHEST RN 685826-98-6
DICTIONARY FILE UPDATES:  25 MAY 2004  HIGHEST RN 685826-98-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d sqide l1 1-9

L1   ANSWER 1 OF 9  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   288706-09-2  REGISTRY
CN   GenBank AX012290 (9CI)  (CA INDEX NAME)
FS   NUCLEIC ACID SEQUENCE
SQL  57
NA   7 a   20 c   19 g   11 t

SEQ      1 gggtccacct cctcgcggtc cgatctgggc atgcggcttc gcatggctaa
           ========== ========== ========== ========== ==========
        51 gggaccc
           =======
HITS AT:   1-57
MF   Unspecified
CI   MAN
SR   GenBank
LC   STN Files:   GENBANK

L1   ANSWER 2 OF 9  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   288706-08-1  REGISTRY
CN   GenBank AX012289 (9CI)  (CA INDEX NAME)
FS   NUCLEIC ACID SEQUENCE
SQL  57
NA   7 a   20 c   20 g   10 t

SEQ      1 gggtccacct cctcgcggtc cgagctgggc atgcggcttc gcatggctaa
           ========== ========== ========== ========== ==========
        51 gggaccc
           =======
```

Search completed by David Schreiber x22526

HITS AT: 1-57
MF Unspecified
CI MAN
SR GenBank
LC STN Files: GENBANK

L1 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
RN 288706-07-0 REGISTRY
CN GenBank AX012288 (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
SQL 57
NA 8 a 20 c 19 g 10 t

SEQ 1 gggtccacct cctcgcggtc cgaactgggc atgcggcttc gcatggctaa
==========
==========
==========
==========
==========
51 gggaccc
=======

HITS AT: 1-57
MF Unspecified
CI MAN
SR GenBank
LC STN Files: GENBANK

L1 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
RN 288706-06-9 REGISTRY
CN GenBank AX012287 (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
SQL 57
NA 6 a 21 c 19 g 11 t

SEQ 1 gggtccacct cctcgcggtc cgtcctgggc atgcggcttc gcatggctaa
==========
==========
==========
==========
==========
51 gggaccc
=======

HITS AT: 1-57
MF Unspecified
CI MAN
SR GenBank
LC STN Files: GENBANK

L1 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
RN 288706-05-8 REGISTRY
CN GenBank AX012286 (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
SQL 57
NA 6 a 21 c 20 g 10 t

SEQ 1 gggtccacct cctcgcggtc cggcctgggc atgcggcttc gcatggctaa
==========
==========
==========
==========
==========
51 gggaccc
=======

HITS AT: 1-57
MF Unspecified
CI MAN
SR GenBank
LC STN Files: GENBANK

L1 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
RN 288706-02-5 REGISTRY

Search completed by David Schreiber x22526

```
CN   GenBank AX012283 (9CI)  (CA INDEX NAME)
FS   NUCLEIC ACID SEQUENCE
SQL  57
NA   7 a   21 c   19 g   10 t

SEQ      1 gggtccacct cctcgcggtc ccagctgggc atgcggcttc gcatggctaa
           ========== ========== ========== ========== ==========
        51 gggaccc
           =======
HITS AT:   1-57
MF   Unspecified
CI   MAN
SR   GenBank
LC   STN Files:   GENBANK

L1   ANSWER 7 OF 9  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   288706-01-4  REGISTRY
CN   GenBank AX012282 (9CI)  (CA INDEX NAME)
FS   NUCLEIC ACID SEQUENCE
SQL  57
NA   7 a   21 c   19 g   10 t

SEQ      1 gggtccacct cctcgcggtc cgacctgggc atgcggcttc gcatggctaa
           ========== ========== ========== ========== ==========
        51 gggaccc
           =======
HITS AT:   1-57
MF   Unspecified
CI   MAN
SR   GenBank
LC   STN Files:   GENBANK

L1   ANSWER 8 OF 9  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   210411-85-1  REGISTRY
CN   Ribozyme (synthetic hepatitis delta virus trans-cleaving derivative
     δRzP1.2) (9CI)  (CA INDEX NAME)
FS   NUCLEIC ACID SEQUENCE
SQL  57
NA   7 a   21 c   19 g   10 u
NTE  singlestranded

SEQ      1 ggguccaccu ccucgcgguc ccagcugggc augcggcuuc gcauggcuaa
           ========== ========== ========== ========== ==========
        51 gggaccc
           =======
HITS AT:   1-57
MF   Unspecified
CI   MAN
SR   CA
LC   STN Files:   CA, CAPLUS
DT.CA  CAplus document type:  Journal
RL.NP  Roles from non-patents:  BIOL (Biological study); PRP (Properties)
               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1   ANSWER 9 OF 9  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   210411-84-0  REGISTRY
CN   Ribozyme (synthetic hepatitis delta virus trans-cleaving derivative
     δRzP1.1) (9CI)  (CA INDEX NAME)
```

Search completed by David Schreiber x22526

FS NUCLEIC ACID SEQUENCE
SQL 57
NA 7 a 21 c 19 g 10 u
NTE singlestranded

SEQ 1 ggguccaccu ccucgcgguc cgaccugggc augcggcuuc gcauggcuaa
51 gggaccc

HITS AT: 1-57
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties)
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 12:01:28 ON 26 MAY 2004

FILE COVERS 1907 - 26 May 2004 VOL 140 ISS 22
FILE LAST UPDATED: 25 May 2004 (20040525/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d ibib abs l2 1

L2 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:345095 HCAPLUS
DOCUMENT NUMBER: 129:132959
TITLE: Substrate specificity of δ **ribozyme** cleavage
AUTHOR(S): Ananvoranich, Sirinart; Perreault, Jean-Pierre
CORPORATE SOURCE: Department de Biochimie, Universite de Sherbrooke, Quebec, J1H 5N4, Can.
SOURCE: Journal of Biological Chemistry (1998), 273(21), 13182-13188
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology

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DOCUMENT TYPE: Journal
LANGUAGE: English

AB The specificity of δ **ribozyme** cleavage was investigated using a trans-acting antigenomic δ **ribozyme**. Under single turnover conditions, the wild type **ribozyme** cleaved the 11-mer ribonucleotide substrate with a rate constant of 0.34 min-1, an apparent Km of 17.9 nM and an apparent second-order rate constant of 1.89 + 107 min-1 M-1. The substrate specificity of the δ **ribozyme** was thoroughly investigated using a collection of substrates that varied in either the length or the nucleotide sequence of their P1 stems. The authors observed that not only is the base pairing of the substrate and the **ribozyme** important to cleavage activity, but also both the identity and the combination of the nucleotide sequence in the substrates are essential for cleavage activity. The authors show that the nucleotides in the middle of the P1 stem are essential for substrate binding and subsequent steps in the cleavage pathway. The introduction of any mismatches at these positions resulted in a complete lack of cleavage by the wild type **ribozyme**. Our findings suggest that factors more complex than simple base pairing interactions, such as tertiary structure interactions, could play an important role in the substrate specificity of δ **ribozyme** cleavage.

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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